

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/013566

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G02B13/00, G02B13/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G02B13/00, G02B13/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2004

Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E, X	JP 2004-325713 A (Canon Inc.), 18 November, 2004 (18.11.04), Full text; all drawings; particularly, Par. Nos. [0015] to [0020], [0022], [0024] to [0035], [0038] to [0058], values of examples 1 to 18; Figs. 1 to 36 & US 2004/0212901 A1	1-10
P, X	JP 2004-226487 A (Seiko Epson Corp.), 12 August, 2004 (12.08.04), Full text; all drawings; particularly, Claims 1 to 2, 4 to 5, 7 to 8; Par. Nos. [0019] to [0026], [0028] to [0043], [0045] to [0046]; Figs. 1 to 12 (Family: none)	1-10

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
20 December, 2004 (20.12.04)Date of mailing of the international search report
11 January, 2005 (11.01.05)

Name and mailing address of the ISA/

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	JP 2004-240063 A (Fuji Photo Optical Co., Ltd.), 26 August, 2004 (26.08.04), Full text; all drawings; particularly, Claims 1 to 3; Par. Nos. [0010] to [0014], [0019] to [0023], [0034] to [0042]; Figs. 1 to 6 & US 2004/0150893 A1	1-10
P, X	JP 2004-4566 A (Konica Minolta Holdings Kabushiki Kaisha), 08 January, 2004 (08.01.04), Full text; all drawings; particularly, Claims 1 to 3, 7; Par. Nos. [0006] to [0014], [0019] to [0020], [0054] to [0091], examples 1 to 7; Figs. 1 to 18 & EP 1348990 A1 & US 2003/0193605 A1 & KR 2003077390 A & CN 1447144 A	1-10
A	JP 2001-75006 A (Enplas Corp.), 23 March, 2001 (23.03.01), Full text; all drawings & US 6466377 B1	1-10
A	JP 8-234097 A (Copal Co., Ltd.), 13 September, 1996 (13.09.96), Full text; all drawings (Family: none)	1-10
A	JP 62-116915 A (Canon Inc.), 28 May, 1987 (28.05.87), Full text; all drawings (Family: none)	1-10
A	JP 62-191813 A (Matsushita Electric Industrial Co., Ltd.), 22 August, 1987 (22.08.87), Full text; all drawings (Family: none)	1-10